Armin Kurtz

List of Publications by Year
in descending order

114 papers	3,771 citations	94433 37 h-index	149698 56 g-index
114 all docs	114 docs citations	114 times ranked	2306 citing authors

#	Article	IF	Citations
1	Intact prostaglandin signaling through EP2 and EP4 receptors in stromal progenitor cells is required for normal development of the renal cortex in mice. American Journal of Physiology - Renal Physiology, 2022, , .	2.7	1
2	Prolylâ€4â€hydroxylases 2 and 3 control erythropoietin production in reninâ€expressing cells of mouse kidneys. Journal of Physiology, 2022, 600, 671-694.	2.9	13
3	Flexible and multifaceted: the plasticity of renin-expressing cells. Pflugers Archiv European Journal of Physiology, 2022, 474, 799-812.	2.8	7
4	Localization of angiotensin II type 1 receptor gene expression in rodent and human kidneys. American Journal of Physiology - Renal Physiology, 2021, 320, F644-F653.	2.7	13
5	Inhibition of transforming growth factor Î²1 signaling in resident interstitial cells attenuates profibrotic gene expression and preserves erythropoietin production during experimental kidney fibrosis in mice. Kidney International, 2021, 100, 122-137.	5.2	18
6	PflÃ¼gers Archiv - European journal of physiology becomes the official journal of the German Physiological Society. Pflugers Archiv European Journal of Physiology, 2020, 472, 1657-1657.	2.8	0
7	Pathophysiological mechanisms underlying a rat model of triple whammy acute kidney injury. Laboratory Investigation, 2020, 100, 1455-1464.	3.7	6
8	Different subpopulations of kidney interstitial cells produce erythropoietin and factors supporting tissue oxygenation in response to hypoxia inÂvivo. Kidney International, 2020, 98, 918-931.	5.2	31
9	How can juxtaglomerular renin-producing cells support the integrity of glomerular endothelial cells?. Pflugers Archiv European Journal of Physiology, 2019, 471, 1161-1162.	2.8	1
10	Apparently normal kidney development in mice with conditional disruption of ANG II-AT₁receptor genes in FoxD1-positive stroma cell precursors. American Journal of Physiology - Renal Physiology, 2019, 316, F1191-F1200.	2.7	5
11	Angiotensin II Short-Loop Feedback. Hypertension, 2018, 71, 1075-1082.	2.7	19
12	COX-2-derived PGE2 triggers hyperplastic renin expression and hyperreninemia in aldosterone synthase-deficient mice. Pflugers Archiv European Journal of Physiology, 2018, 470, 1127-1137.	2.8	11
13	Lack of connexin 40 decreases the calcium sensitivity of renin-secreting juxtaglomerular cells. Pflugers Archiv European Journal of Physiology, 2018, 470, 969-978.	2.8	4
14	CCR7 Is Important for Mesangial Cell Physiology and Repair. Journal of Histochemistry and Cytochemistry, 2018, 66, 7-22.	2.5	3
15	Phenotypic dissection of the mouse Ren1d knockout by complementation with human renin. Journal of Biological Chemistry, 2018, 293, 1151-1162.	3.4	3
16	Celebrating 150-year anniversary!. Pflugers Archiv European Journal of Physiology, 2018, 470, 1719-1720.	2.8	0
17	Nobel Prizes 2017 and their impact for physiology. Pflugers Archiv European Journal of Physiology, 2018, 470, 211-212.	2.8	1
18	Endocrine functions of the renal interstitium. Pflugers Archiv European Journal of Physiology, 2017, 469, 869-876.	2.8	23

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19	Activation of Hypoxia Signaling in Stromal Progenitors Impairs Kidney Development. American Journal of Pathology, 2017, 187, 1496-1511.	3.8	20
20	PflÃ¼gers Archiv historical articleâ€"a new category of papers in PflÃ¼gers Archivâ€"European Journal of Physiology. Pflugers Archiv European Journal of Physiology, 2016, 468, 1113-1113.	2.8	1
21	Erythropoietin production by PDGFR-Î²+ cells. Pflugers Archiv European Journal of Physiology, 2016, 468, 1479-1487.	2.8	34
22	Commentary for â€œhuman kidney pericytes produce reninâ€. Kidney International, 2016, 90, 1153-1154.	5.2	3
23	An editorâ€™s tribute to his predecessor. Pflugers Archiv European Journal of Physiology, 2016, 468, 157-157.	2.8	0
24	Connexin 40 is dispensable for vascular renin cell recruitment but is indispensable for vascular baroreceptor control of renin secretion. Pflugers Archiv European Journal of Physiology, 2015, 467, 1825-1834.	2.8	8
25	Inducible deletion of connexin 40 in adult mice causes hypertension and disrupts pressure control of renin secretion. Kidney International, 2015, 87, 557-563.	5.2	18
26	Salty stories. Pflugers Archiv European Journal of Physiology, 2015, 467, 443-443.	2.8	0
27	Plasticity of renal endocrine function. American Journal of Physiology - Regulatory Integrative and Comparative Physiology, 2015, 308, R455-R466.	1.8	16
28	Inducible glomerular erythropoietin production in the adult kidney. Kidney International, 2015, 88, 1345-1355.	5.2	51
29	Connexins, renin cell displacement and hypertension. Current Opinion in Pharmacology, 2015, 21, 1-6.	3.5	18
30	Chronic Hypoxia-Inducible Transcription Factor-2 Activation Stably Transforms Juxtaglomerular Renin Cells into Fibroblast-Like Cells In Vivo. Journal of the American Society of Nephrology: JASN, 2015, 26, 587-596.	6.1	27
31	Control of renin secretion from kidneys with renin cell hyperplasia. American Journal of Physiology - Renal Physiology, 2014, 306, F327-F332.	2.7	6
32	Connexin 43 is not essential for the control of renin synthesis and secretion. Pflugers Archiv European Journal of Physiology, 2014, 466, 1003-1009.	2.8	8
33	Pericytes on the move. Pflugers Archiv European Journal of Physiology, 2013, 465, 765-765.	2.8	0
34	Distribution and functional relevance of connexins in renin-producing cells. Pflugers Archiv European Journal of Physiology, 2013, 465, 71-77.	2.8	13
35	Procollagen I-expressing renin cell precursors. American Journal of Physiology - Renal Physiology, 2013, 305, F355-F361.	2.7	7
36	The aldo-keto reductase AKR1B7 coexpresses with renin without influencing renin production and secretion. American Journal of Physiology - Renal Physiology, 2013, 304, F578-F584.	2.7	9

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37	Endothelium-Derived Nitric Oxide Supports Renin Cell Recruitment Through the Nitric Oxideâ€"Sensitive Guanylate Cyclase Pathway. Hypertension, 2013, 61, 400-407.	2.7	24
38	Deletion of von Hippelâ€"Lindau Protein Converts Renin-Producing Cells into Erythropoietin-Producing Cells. Journal of the American Society of Nephrology: JASN, 2013, 24, 433-444.	6.1	51
39	Structural analysis suggests that renin is released by compound exocytosis. Kidney International, 2013, 83, 233-241.	5.2	12
40	Pericytes on the move. Pflugers Archiv European Journal of Physiology, 2013, , .	2.8	0
41	Role of blood pressure in mediating the influence of salt intake on renin expression in the kidney. American Journal of Physiology - Renal Physiology, 2012, 302, F1278-F1285.	2.7	19
42	Defective Cx40 Maintains Cx37 Expression but Intact Cx40 Is Crucial for Conducted Dilations Irrespective of Hypertension. Hypertension, 2012, 60, 1422-1429.	2.7	52
43	Renal connexins and blood pressure. Biochimica Et Biophysica Acta - Biomembranes, 2012, 1818, 1903-1908.	2.6	23
44	Control of Renin Synthesis and Secretion. American Journal of Hypertension, 2012, 25, 839-847.	2.0	75
45	Erythropoietin. , 2011, 1, 1759-1794.		44
46	Renin Release: Sites, Mechanisms, and Control. Annual Review of Physiology, 2011, 73, 377-399.	13.1	94
47	The Connexin40 A96S Mutation Causes Renin-Dependent Hypertension. Journal of the American Society of Nephrology: JASN, 2011, 22, 1031-1040.	6.1	38
48	Reciprocal expression of connexin 40 and 45 during phenotypical changes in renin-secreting cells. American Journal of Physiology - Renal Physiology, 2011, 300, F743-F748.	2.7	19
49	High-Level Connexin Expression in the Human Juxtaglomerular Apparatus. Nephron Physiology, 2010, 116, p1-p8.	1.2	35
50	Salt Intake and the Nitric Oxide-Cyclic AMP Signaling Pathway in Renin Secreting Cells. American Journal of Hypertension, 2010, 23, 1157-1157.	2.0	1
51	Selective deletion of Connexin 40 in renin-producing cells impairs renal baroreceptor function and is associated with arterial hypertension. Kidney International, 2010, 78, 762-768.	5.2	71
52	Physiology of Kidney Renin. Physiological Reviews, 2010, 90, 607-673.	28.8	227
53	Distinct phenotypes after cellâ€specific deletion of Cx40: Loss in endothelial cells impairs conduction in arterioles and loss in reninâ€producing cells elevates blood pressure. FASEB Journal, 2010, 24, 973.7.	0.5	1
54	Connexin 40 Mediates the Tubuloglomerular Feedback Contribution to Renal Blood Flow Autoregulation. Journal of the American Society of Nephrology: JASN, 2009, 20, 1577-1585.	6.1	51

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55	Replacement of connexin 40 by connexin 45 causes ectopic localization of renin-producing cells in the kidney but maintains in vivo control of renin gene expression. American Journal of Physiology - Renal Physiology, 2009, 297, F403-F409.	2.7	17
56	Development of vascular renin expression in the kidney critically depends on the cyclic AMP pathway. American Journal of Physiology - Renal Physiology, 2009, 296, F1006-F1012.	2.7	44
57	Developmental renin expression in mice with a defective renin-angiotensin system. American Journal of Physiology - Renal Physiology, 2009, 297, F1371-F1380.	2.7	23
58	Connexin Expression in Renin-Producing Cells. Journal of the American Society of Nephrology: JASN, 2009, 20, 506-512.	6.1	53
59	Connexin 37 is dispensable for the control of the renin system and for positioning of renin-producing cells in the kidney. Pflugers Archiv European Journal of Physiology, 2009, 459, 151-158.	2.8	31
60	Substitution of connexin40 with connexin45 prevents hyperreninemia and attenuates hypertension. Kidney International, 2009, 75, 482-489.	5.2	50
61	HIF-Prolyl Hydroxylases in the Rat Kidney. American Journal of Pathology, 2009, 174, 1663-1674.	3.8	89
62	Lack of Connexin 40 Causes Displacement of Renin-Producing Cells from Afferent Arterioles to the Extraglomerular Mesangium. Journal of the American Society of Nephrology: JASN, 2007, 18, 1103-1111.	6.1	104
63	Increased expression of cyclooxygenase 2 contributes to aberrant renin production in connexin 40-deficient kidneys. American Journal of Physiology - Regulatory Integrative and Comparative Physiology, 2007, 293, R1781-R1786.	1.8	14
64	Connexin40 Is Essential for the Pressure Control of Renin Synthesis and Secretion. Circulation Research, 2007, 100, 556-563.	4.5	197
65	Renin Release. Physiology, 2007, 22, 310-319.	3.1	96
66	Gap junctional communication via connexin40 is essential for the pressure control of the renin system. FASEB Journal, 2007, 21, A502.	0.5	3
67	Osmolarity-induced renin secretion from kidneys: evidence for readily releasable renin pools. American Journal of Physiology - Renal Physiology, 2006, 290, F797-F805.	2.7	20
68	The Calcium Paradoxon of Renin Release. Circulation Research, 2006, 99, 1197-1206.	4.5	69
69	TRANSGENIC MICE EXPRESSING CRE RECOMBINASE UNDER THE CONTROL OF THE HUMAN RENIN PROMOTER. FASEB Journal, 2006, 20, A344.	0.5	0
70	Blood Pressureâ€"Dependent Inhibition of Renin Secretion Requires A1 Adenosine Receptors. Hypertension, 2005, 46, 780-786.	2.7	51
71	Role of CREB1 and NFÎºB-p65 in the Down-regulation of Renin Gene Expression by Tumor Necrosis Factor Î±. Journal of Biological Chemistry, 2005, 280, 24356-24362.	3.4	30
72	Tumor Necrosis Factor-Î± Activates NFÎºB to Inhibit Renin Transcription by Targeting cAMP-responsive Element. Journal of Biological Chemistry, 2004, 279, 1458-1467.	3.4	43

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73	Permissive role of nitric oxide in macula densa control of renin secretion. American Journal of Physiology - Renal Physiology, 2004, 286, F848-F857.	2.7	62
74	Hypoxia up-regulates triosephosphate isomerase expression via a HIF-dependent pathway. Pflugers Archiv European Journal of Physiology, 2004, 448, 175-180.	2.8	35
75	Differential regulation of renin and Cox-2 expression in the renal cortex of C57Bl/6 mice. Pflugers Archiv European Journal of Physiology, 2003, 447, 214-222.	2.8	9
76	Deciphering the physiological roles of COX-2. American Journal of Physiology - Regulatory Integrative and Comparative Physiology, 2003, 284, R486-R487.	1.8	2
77	Preserved macula densa-dependent renin secretion in A₁adenosine receptor knockout mice. American Journal of Physiology - Renal Physiology, 2003, 284, F770-F777.	2.7	75
78	Angiotensin II feedback is a regulator of renocortical renin, COX-2, and nNOS expression. American Journal of Physiology - Regulatory Integrative and Comparative Physiology, 2002, 282, R1613-R1617.	1.8	33
79	Cyclic AMP stimulates renin gene transcription in juxtaglomerular cells. Pflugers Archiv European Journal of Physiology, 2002, 444, 335-344.	2.8	59
80	Functional role of sodium-calcium exchange in the regulation of renal vascular resistance. American Journal of Physiology - Renal Physiology, 2001, 280, F155-F161.	2.7	23
81	Furosemide stimulates macula densa cyclooxygenase-2 expression in rats. Kidney International, 2001, 59, 62-68.	5.2	65
82	Inhibition of COX-2 counteracts the effects of diuretics in rats. Kidney International, 2001, 60, 1684-1691.	5.2	60
83	Role of potassium channels in the control of renin secretion from isolated perfused rat kidneys. Pflugers Archiv European Journal of Physiology, 2000, 440, 889-895.	2.8	11
84	Cyclooxygenase 2 and neuronal nitric oxide synthase expression in the renal cortex are not interdependent in states of salt deficiency. Pflugers Archiv European Journal of Physiology, 2000, 441, 235-240.	2.8	20
85	Tissue hypoxygenation activates the adrenomedullin system in vivo. American Journal of Physiology - Regulatory Integrative and Comparative Physiology, 2000, 278, R513-R519.	1.8	53
86	Store-operated calcium influx inhibits renin secretion. American Journal of Physiology - Renal Physiology, 2000, 279, F170-F176.	2.7	26
87	Inhibition of the Renin-Angiotensin System Upregulates Cyclooxygenase-2 Expression in the Macula Densa. Hypertension, 1999, 34, 503-507.	2.7	95
88	Stimulation of renin secretion by NO donors is related to the cAMP pathway. American Journal of Physiology - Renal Physiology, 1998, 274, F709-F717.	2.7	13
89	Role of nitric oxide in the control of renin secretion. American Journal of Physiology - Renal Physiology, 1998, 275, F849-F862.	2.7	46
90	MEMBRANE AND SECRETORY PROPERTIES OF RENAL JUXTAGLOMERULAR GRANULAR CELLS. Clinical and Experimental Pharmacology and Physiology, 1997, 24, 536-540.	1.9	8

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91	Adrenomedullin Stimulates Renin Release and Renin mRNA in Mouse Juxtaglomerular Granular Cells. Hypertension, 1997, 29, 1148-1155.	2.7	70
92	Influence of hypoxia on hepatic and renal endothelin gene expression. Pflugers Archiv European Journal of Physiology, 1996, 431, 587-593.	2.8	33
93	Divergent regulation of vascular endothelial growth factor and of erythropoietin gene expression in vivo. Pflugers Archiv European Journal of Physiology, 1996, 431, 905-912.	2.8	33
94	Coordinate changes of renin and brain-type nitric-oxide-synthase (b-NOS) mRNA levels in rat kidneys. Pflugers Archiv European Journal of Physiology, 1996, 432, 394-400.	2.8	60
95	Endothelins inhibit cyclic-AMP induced renin gene expression in cultured mouse juxtaglomerular cells. Kidney International, 1996, 50, 108-115.	5.2	25
96	Influence of hypoxia on hepatic and renal endothelin gene expression. Pflugers Archiv European Journal of Physiology, 1996, 431, 587-593.	2.8	0
97	Opposite regulation of renin gene expression by cyclic AMP and calcium in isolated mouse juxtaglomerular cells. Kidney International, 1995, 47, 1266-1273.	5.2	38
98	Differential regulation of cytosolic calcium between afferent arteriolar smooth muscle cells from mouse kidney. Pflugers Archiv European Journal of Physiology, 1995, 431, 46-51.	2.8	26
99	Hypoxia-induced accumulation of erythropoietin mRNA in isolated hepatocytes is inhibited by protein kinase C. Pflugers Archiv European Journal of Physiology, 1994, 426, 21-30.	2.8	20
100	Role of calcium ions in the pressure control of renin secretion from the kidneys. Pflugers Archiv European Journal of Physiology, 1994, 428, 173-178.	2.8	37
101	Endothelium derived relaxing factor is involved in the pressure control of renin gene expression in the kidney. Pflugers Archiv European Journal of Physiology, 1994, 428, 261-268.	2.8	28
102	Influence of dietary NaCl intake on renin gene expression in the kidneys and adrenal glands of rats. Pflugers Archiv European Journal of Physiology, 1993, 425, 62-67.	2.8	51
103	Furosemide stimulates renin expression in the kidneys of salt-supplemented rats. Pflugers Archiv European Journal of Physiology, 1993, 424, 403-409.	2.8	23
104	Extracellular calcium exerts a dual effect on renin secretion from isolated mouse juxtaglomerular cells. Pflugers Archiv European Journal of Physiology, 1993, 423-423, 14-20.	2.8	11
105	Distribution of erythropoietin producing cells in rat kidneys during hypoxic hypoxia. Kidney International, 1993, 43, 815-823.	5.2	89
106	Disparate effects of calcium channel blockers on pressure dependence of renin secretion and flow in the isolated perfused rat kidney. Pflugers Archiv European Journal of Physiology, 1992, 421, 155-162.	2.8	27
107	MULTIPLE SITE ESTIMATES OF ERYTHROPOIETIN AND RENIN IN POLYCYTHEMIC KIDNEY TRANSPLANT PATIENTS. Transplantation, 1990, 50, 613-616.	1.0	59
108	Lack of direct evidence for a functional role of voltage-operated calcium channels in juxtaglomerular cells. Pflugers Archiv European Journal of Physiology, 1990, 416, 281-287.	2.8	26

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109	Erythropoietin Production in Chronic Renal Disease before and after Transplantation. Contributions To Nephrology, 1990, 87, 15-25.	1.1	12
110	Site of Erythropoietin Formation. Contributions To Nephrology, 1989, 76, 14-23.	1.1	30
111	Cyclosporine A enhances renin secretion and production in isolated juxtaglomerular cells. Kidney International, 1988, 33, 947-953.	5.2	90
112	Rat Juxtaglomerular Cells are Endowed with DA-1 Dopamine Receptors Mediating Renin Release. Journal of Cardiovascular Pharmacology, 1988, 12, 658-663.	1.9	42
113	Regulation of Erythropoietin Production. Contributions To Nephrology, 1988, 66, 1-16.	1.1	37
114	Is renin secretion governed by the calcium permeability of the juxtaglomerular cell membrane?. Biochemical and Biophysical Research Communications, 1984, 124, 359-366.	2.1	40